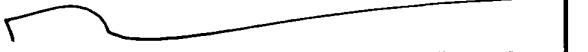


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| FORM PTO-1390 US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE (REV. 01-2003) | | ATTORNEY'S DOCKET NUMBER 123522 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) New U.S. National Stage of PCT/JP04/016760 10/532310 |
| INTERNATIONAL APPLICATION NO. PCT/JP04/016760 | INTERNATIONAL FILING DATE November 11, 2004 | PRIORITY DATE CLAIMED November 12, 2003 |
| TITLE OF INVENTION HONEYCOMB STRUCTURE | | |
| APPLICANTS FOR DO/EO/US Naoshi MASUKAWA and Shuichi ICHIKAWA | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). c. <input type="checkbox"/> The International Application was filed in English. 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventors (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| <ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> International Search Report. | | |

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|---|--|---|-------------------|------------------------------|
| U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) New U.S. National Stage of PCT/JP04/016760 | INTERNATIONAL APPLICATION NO. PCT/JP04/016760 | ATTORNEY'S DOCKET NUMBER 123522 | | |
| 21. <input checked="" type="checkbox"/> The following fees are submitted: | | CALCULATIONS PTO USE ONLY | | |
| | | | | |
| BASIC NATIONAL FEE (37 CFR 1.492(a)): \$ 300.00 | | \$300.00 | | |
| SEARCH FEE (37 CFR 1.492(b)(1)-(3)): | | \$400.00 | | |
| International search fee (37 CFR 1.445(a)(2)) paid to USPTO as ISA..... \$ 100.00 | | | | |
| International search report provided to USPTO no later than the time at which the search fee is paid \$ 400.00 | | | | |
| All situations not provided for above..... \$ 500.00 | | | | |
| EXAMINATION FEE (37 CFR 1.492(c)(1)-(2)): | | \$200.00 | | |
| International preliminary examination report prepared by the USPTO as IPEA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage \$ 100.00 | | | | |
| All situations not provided for above..... \$ 200.00 | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | \$ | | |
| TOTAL PAGES OF APPLICATION OVER 100 (- 100) | + 50 | = +0 | x 250 = | \$ |
| round up to next integer | | | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | \$ |
| TOTAL CLAIMS | 10- 20 | = 0 | x 50.00 = | \$ |
| INDEPENDENT CLAIMS | 2- 3 | = 0 | x 200.00 = | \$ |
| MULTIPLE DEPENDENT CLAIM(S)(if applicable) | | | + 360.00 = | \$ |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$900.00 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½ . | | \$ | | |
| SUBTOTAL = | | | | \$900.00 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | \$ | | |
| TOTAL NATIONAL FEE = | | | | \$900.00 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + | | \$ | | |
| TOTAL FEES ENCLOSED = | | | | \$900.00 |
| | | | | Amount to be refunded: \$ |
| | | | | charged: \$ |
| a. <input checked="" type="checkbox"/> Check No. <u>165994</u> in the amount of \$900.00 to cover the above fees is enclosed. | | | | |
| b. <input type="checkbox"/> Please charge my Deposit Account No. <u> </u> in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. | | | | |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>15-0461</u> . A duplicate copy of this sheet is enclosed. | | | | |
| d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. | | | | |
| SEND ALL CORRESPONDENCE TO: OLIFF & BERRIDGE, PLC Customer Number: 25944 | | | | |
|  NAME: James A. Oliff REGISTRATION NUMBER: 27,075 | | | | |
| Date <u>April 22, 2005</u> NAME: Eric D. Morehouse REGISTRATION NUMBER: 38,565 | | | | |

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Naoshi MASUKAWA et al.

Application No.: New U.S. National Stage of
PCT/JP04/016760

Filed: April 22, 2005

Docket No.: 123522

For: HONEYCOMB STRUCTURE

**TRANSMITTAL OF POWER OF ATTORNEY AND
STATEMENT UNDER 37 CFR § 3.73(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Power of Attorney from the Assignee.

In compliance with 37 CFR §3.73(b), the undersigned hereby states that NGK INSULATORS, LTD. is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. A copy of the assignment is attached hereto.

The undersigned is authorized to act on behalf of the assignee.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD
BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE
(703) 836-6400.**

Respectfully submitted,



Eric D. Morehouse
Registration No. 38,565

EDM/crh

Date: April 22, 2005